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2.6. Bacterial Zeta Potential

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An abbreviated version of this protocol was published in Microorganisms in May 2021

Rehydration before Application Improves Functional Properties of Lyophilized Lactiplantibacillus plantarum HAC03

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Detailed protocol

1. **Bacteria Z-potential**

Fresh and freeze-dried bacteria cultures were prepared and adjusted to a final concentration of 1x10^8 CFU/mL in double distilled water pH 2.0 (DDW) after rehydration with 1mL DDW for 1 minute at 25°C. The cultures pH was measured and corrected to pH 2.0 by adding HCl 0.1N and 800 ul sample was loaded in DTS1070 cuvettes. The Smoluchowski model was used to convert electrophoretic mobility data to zeta potential values and it was measured on Zetasizer Nano ZEN 3600 after 2 minutes equilibration time (Malvern Panalytica, UK).

How to cite:（Readers should cite both the Bio-protocol preprint and the original research article where this protocol was used）

1. Arellano-Ayala, K. , Lim, J. and Holzapfel, W. (2022). 2.6. Bacterial Zeta Potential. Bio-protocol Preprint. bio-protocol.org/prep2075.
2. Arellano-Ayala, K., Lim, J., Yeo, S., Bucheli, J. E. V., Todorov, S. D., Ji, Y. and Holzapfel, W.(2021). Rehydration before Application Improves Functional Properties of Lyophilized Lactiplantibacillus plantarum HAC03. Microorganisms 9(5). DOI: 10.3390/microorganisms9051013

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